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*Power One*

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REV 01

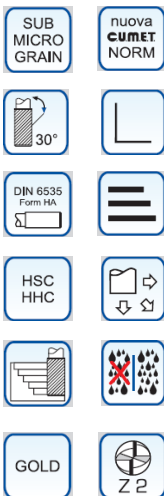


Solid carbide Miniature flat nose end mill shank 4-6mm

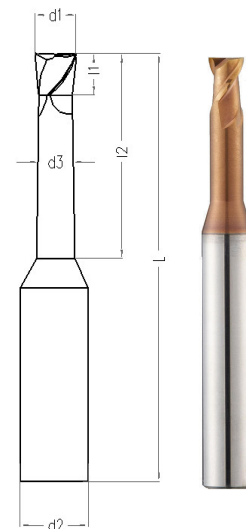
VHM- Mini Gesenkfraser, Schaft 4-6mm

Microfraise carbure a bout plat

Микро фреза концевая твердосплавная с плоским торцом, хвостовик 4 - 6 мм



Code <i>HRC ~55</i>	Code <i>HRC ~65</i>	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205PM.001	205PH.001	0,1	4	0,2	-	50	-	2
205PM.001.1	205PH.001.1	0,1	4	0,15	1	50	0,07	2
205PM.001.2	205PH.001.2	0,1	4	0,15	2	50	0,07	2
205PM.0015	205PH.0015	0,15	4	0,2	-	50	-	2
205PM.002	205PH.002	0,2	4	0,4	-	50	-	2
205PM.002.1	205PH.002.1	0,2	4	0,3	1	50	0,17	2
205PM.002.2	205PH.002.2	0,2	4	0,3	2	50	0,17	2
205PM.003	205PH.003	0,3	4	0,5	-	50	-	2
205PM.003.1	205PH.003.1	0,3	4	0,4	1	50	0,27	2
205PM.003.2	205PH.003.2	0,3	4	0,4	2	50	0,27	2
205PM.003.3	205PH.003.3	0,3	4	0,4	3	50	0,27	2
205PM.004	205PH.004	0,4	4	0,8	-	50	-	2
205PM.004.1	205PH.004.1	0,4	4	0,6	1	50	0,37	2
205PM.004.2	205PH.004.2	0,4	4	0,6	2	50	0,37	2
205PM.004.3	205PH.004.3	0,4	4	0,6	3	50	0,37	2
205PM.004.4	205PH.004.4	0,4	4	0,6	4	50	0,37	2
205PM.004.5	205PH.004.5	0,4	4	0,6	5	50	0,37	2
205PM.005	205PH.005	0,5	4	1,0	-	50	-	2
205PM.005.1	205PH.005.1	0,5	4	0,8	2	50	0,45	2
205PM.005.2	205PH.005.2	0,5	4	0,8	3	50	0,45	2
205PM.005.3	205PH.005.3	0,5	4	0,8	4	50	0,45	2
205PM.005.4	205PH.005.4	0,5	4	0,8	5	50	0,45	2
205PM.005.5	205PH.005.5	0,5	4	0,8	6	50	0,45	2
205PM.005.6	205PH.005.6	0,5	4	0,8	8	50	0,45	2
205PM.005.7	205PH.005.7	0,5	4	0,8	10	50	0,45	2
205PM.006	205PH.006	0,6	4	1,2	-	50	-	2
205PM.006.1	205PH.006.1	0,6	4	0,9	2	50	0,55	2
205PM.006.2	205PH.006.2	0,6	4	0,9	3	50	0,55	2
205PM.006.3	205PH.006.3	0,6	4	0,9	4	50	0,55	2
205PM.006.4	205PH.006.4	0,6	4	0,9	5	50	0,55	2
205PM.006.5	205PH.006.5	0,6	4	0,9	6	50	0,55	2
205PM.006.6	205PH.006.6	0,6	4	0,9	8	50	0,55	2
205PM.006.7	205PH.006.7	0,6	4	0,9	10	50	0,55	2
205PM.007	205PH.007	0,7	4	1,2	-	50	-	2
205PM.007.1	205PH.007.1	0,7	4	1,1	2	50	0,65	2
205PM.007.2	205PH.007.2	0,7	4	1,1	3	50	0,65	2
205PM.007.3	205PH.007.3	0,7	4	1,1	4	50	0,65	2
205PM.007.4	205PH.007.4	0,7	4	1,1	5	50	0,65	2
205PM.007.5	205PH.007.5	0,7	4	1,1	6	50	0,65	2
205PM.007.6	205PH.007.6	0,7	4	1,1	8	50	0,65	2
205PM.007.7	205PH.007.7	0,7	4	1,1	10	50	0,65	2
205PM.008	205PH.008	0,8	4	1,5	-	50	-	2
205PM.008.1	205PH.008.1	0,8	4	1,2	2	50	0,75	2
205PM.008.2	205PH.008.2	0,8	4	1,2	3	50	0,75	2
205PM.008.3	205PH.008.3	0,8	4	1,2	4	50	0,75	2
205PM.008.4	205PH.008.4	0,8	4	1,2	5	50	0,75	2
205PM.008.5	205PH.008.5	0,8	4	1,2	6	50	0,75	2
205PM.008.6	205PH.008.6	0,8	4	1,2	8	50	0,75	2
205PM.008.7	205PH.008.7	0,8	4	1,2	10	50	0,75	2
205PM.009	205PH.009	0,9	4	1,5	-	50	-	2
205PM.009.1	205PH.009.1	0,9	4	1,4	3	50	0,85	2
205PM.009.2	205PH.009.2	0,9	4	1,4	4	50	0,85	2
205PM.009.3	205PH.009.3	0,9	4	1,4	5	50	0,85	2
205PM.009.4	205PH.009.4	0,9	4	1,4	6	50	0,85	2
205PM.009.5	205PH.009.5	0,9	4	1,4	8	50	0,85	2
205PM.009.6	205PH.009.6	0,9	4	1,4	10	50	0,85	2
205PM.010	205PH.010	1,0	4	2,5	-	50	-	2
205PM.010.1	205PH.010.1	1,0	6	2,5	-	50	-	2
205PM.010.2	205PH.010.2	1,0	4	1,5	2	50	0,95	2
205PM.010.3	205PH.010.3	1,0	4	1,5	3	50	0,95	2
205PM.010.4	205PH.010.4	1,0	4	1,5	4	50	0,95	2
205PM.010.5	205PH.010.5	1,0	4	1,5	5	50	0,95	2
205PM.010.6	205PH.010.6	1,0	4	1,5	6	50	0,95	2



\*d1=-0,01/-0,02

**Microfresa testa piana in metallo duro integrale gambo ø 4 e 6 mm**

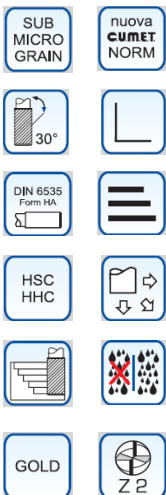


Solid carbide Miniature flat nose end mill shank 4-6mm

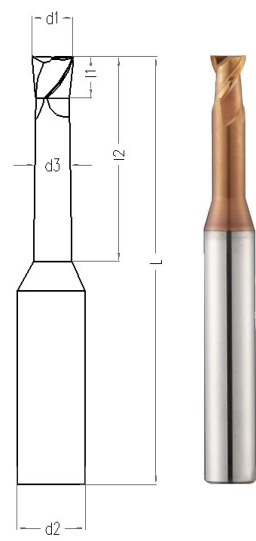
VHM- Mini Gesenkfraser, Schaft 4-6mm

Microfraise carbure a bout plat

Микро фреза концевая твердосплавная с плоским торцом, хвостовик 4 - 6 мм



Code HRC ~55	Code HRC ~65	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205PM.010.7	205PH.010.7	1,0	4	1,5	8	50	0,95	2
205PM.010.8	205PH.010.8	1,0	4	1,5	10	50	0,95	2
205PM.010.9	205PH.010.9	1,0	4	1,5	12	50	0,95	2
205PM.010.10	205PH.010.10	1,0	4	1,5	14	50	0,95	2
205PM.010.11	205PH.010.11	1,0	4	1,5	16	60	0,95	2
205PM.010.12	205PH.010.12	1,0	4	1,5	18	60	0,95	2
205PM.010.13	205PH.010.13	1,0	4	1,5	20	60	0,95	2
205PM.011	205PH.011	1,1	4	2,5	-	50	-	2
205PM.012	205PH.012	1,2	4	4,0	-	50	-	2
205PM.012.1	205PH.012.1	1,2	4	1,8	3	50	1,15	2
205PM.012.2	205PH.012.2	1,2	4	1,8	4	50	1,15	2
205PM.012.3	205PH.012.3	1,2	4	1,8	5	50	1,15	2
205PM.012.4	205PH.012.4	1,2	4	1,8	6	50	1,15	2
205PM.012.5	205PH.012.5	1,2	4	1,8	8	50	1,15	2
205PM.012.6	205PH.012.6	1,2	4	1,8	10	50	1,15	2
205PM.012.7	205PH.012.7	1,2	4	1,8	12	50	1,15	2
205PM.012.8	205PH.012.8	1,2	4	1,8	14	50	1,15	2
205PM.012.9	205PH.012.9	1,2	4	1,8	16	60	1,15	2
205PM.013	205PH.013	1,3	4	4,0	-	50	-	2
205PM.014	205PH.014	1,4	4	4,0	-	50	-	2
205PM.014.1	205PH.014.1	1,4	4	2,2	4	50	1,35	2
205PM.014.2	205PH.014.2	1,4	4	2,2	5	50	1,35	2
205PM.014.3	205PH.014.3	1,4	4	2,2	6	50	1,35	2
205PM.014.4	205PH.014.4	1,4	4	2,2	8	50	1,35	2
205PM.014.5	205PH.014.5	1,4	4	2,2	10	50	1,35	2
205PM.014.6	205PH.014.6	1,4	4	2,2	12	50	1,35	2
205PM.015	205PH.015	1,5	4	4,0	-	50	-	2
205PM.015.1	205PH.015.1	1,5	6	4,0	-	50	-	2
205PM.015.2	205PH.015.2	1,5	4	2,2	4	50	1,45	2
205PM.015.3	205PH.015.3	1,5	4	2,2	5	50	1,45	2
205PM.015.4	205PH.015.4	1,5	4	2,2	6	50	1,45	2
205PM.015.5	205PH.015.5	1,5	4	2,2	8	50	1,45	2
205PM.015.6	205PH.015.6	1,5	4	2,2	10	50	1,45	2
205PM.015.7	205PH.015.7	1,5	4	2,2	12	50	1,45	2
205PM.015.8	205PH.015.8	1,5	4	2,2	14	50	1,45	2
205PM.015.9	205PH.015.9	1,5	4	2,2	16	60	1,45	2
205PM.015.10	205PH.015.10	1,5	4	2,2	18	60	1,45	2
205PM.015.11	205PH.015.11	1,5	4	2,2	20	60	1,45	2
205PM.016	205PH.016	1,6	4	5,0	-	50	-	2
205PM.016.1	205PH.016.1	1,6	4	2,5	4	50	1,55	2
205PM.016.2	205PH.016.2	1,6	4	2,5	5	50	1,55	2
205PM.016.3	205PH.016.3	1,6	4	2,5	6	50	1,55	2
205PM.016.4	205PH.016.4	1,6	4	2,5	8	50	1,55	2
205PM.016.5	205PH.016.5	1,6	4	2,5	10	50	1,55	2
205PM.016.6	205PH.016.6	1,6	4	2,5	12	50	1,55	2
205PM.016.7	205PH.016.7	1,6	4	2,5	14	50	1,55	2
205PM.016.8	205PH.016.8	1,6	4	2,5	16	60	1,55	2
205PM.016.9	205PH.016.9	1,6	4	2,5	18	60	1,55	2
205PM.016.10	205PH.016.10	1,6	4	2,5	20	60	1,55	2
205PM.017	205PH.017	1,7	4	5,0	-	50	-	2
205PM.018	205PH.018	1,8	4	5,0	-	50	-	2
205PM.019	205PH.019	1,9	4	5,0	-	50	-	2
205PM.020	205PH.020	2,0	4	6,0	-	50	-	2
205PM.020.1	205PH.020.1	2,0	6	6,0	-	50	-	2
205PM.020.2	205PH.020.2	2,0	4	3,0	4	50	1,95	2
205PM.020.3	205PH.020.3	2,0	4	3,0	6	50	1,95	2
205PM.020.4	205PH.020.4	2,0	4	3,0	8	50	1,95	2
205PM.020.5	205PH.020.5	2,0	4	3,0	10	50	1,95	2
205PM.020.6	205PH.020.6	2,0	4	3,0	12	50	1,95	2
205PM.020.7	205PH.020.7	2,0	4	3,0	14	50	1,95	2
205PM.020.8	205PH.020.8	2,0	4	3,0	16	60	1,95	2
205PM.020.9	205PH.020.9	2,0	4	3,0	18	60	1,95	2
205PM.020.10	205PH.020.10	2,0	4	3,0	20	60	1,95	2



\*d1=-0,01/-0,02

Solid carbide Miniature flat nose end mill shank 4-6mm

VHM- Mini Gesenkfraser, Schaft 4-6mm

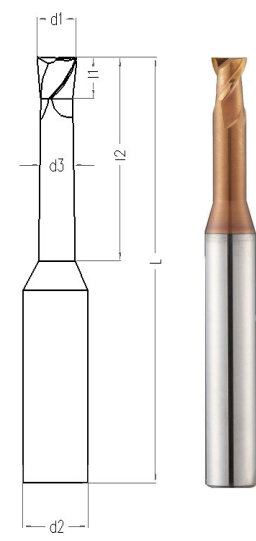
Microfraise carbure a bout plat

Микро фреза концевая твердосплавная с плоским торцом, хвостовик 4 - 6 мм

STEEL ALLOY STEEL CAST IRON INOX < 900 N/mm TITANIUM < 1.100 N/mm

SUB MICRO GRAIN  
nuova CUMET NORM  
30°  
DIN 6535 Form HA  
HSC HHC  
GOLD  
Z 2

Code <b>HRC ~55</b>	Code <b>HRC ~65</b>	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205PM.020.11	205PH.020.11	2,0	4	3,0	22	60	1,95	2
205PM.020.12	205PH.020.12	2,0	4	3,0	25	70	1,95	2
205PM.020.13	205PH.020.13	2,0	4	3,0	30	70	1,95	2
205PM.025	205PH.025	2,5	4	8,0	-	50	-	2
205PM.025.1	205PH.025.1	2,5	6	8,0	-	50	-	2
205PM.025.2	205PH.025.2	2,5	6	3,5	10	50	2,45	2
205PM.025.3	205PH.025.3	2,5	6	3,5	12	50	2,45	2
205PM.025.4	205PH.025.4	2,5	6	3,5	14	60	2,45	2
205PM.025.5	205PH.025.5	2,5	6	3,5	16	60	2,45	2
205PM.025.6	205PH.025.6	2,5	6	3,5	20	60	2,45	2
205PM.025.7	205PH.025.7	2,5	6	3,5	25	70	2,45	2
205PM.030	205PH.030	3,0	4	8,0	-	50	-	2
205PM.030.1	205PH.030.1	3,0	6	8,0	-	50	-	2
205PM.030.2	205PH.030.2	3,0	6	4,0	6	50	2,95	2
205PM.030.3	205PH.030.3	3,0	6	4,0	8	50	2,95	2
205PM.030.4	205PH.030.4	3,0	6	4,0	10	50	2,95	2
205PM.030.5	205PH.030.5	3,0	6	4,0	12	50	2,95	2
205PM.030.6	205PH.030.6	3,0	6	4,0	14	60	2,95	2
205PM.030.7	205PH.030.7	3,0	6	4,0	16	60	2,95	2
205PM.030.8	205PH.030.8	3,0	6	4,0	18	60	2,95	2
205PM.030.9	205PH.030.9	3,0	6	4,0	20	60	2,95	2
205PM.030.10	205PH.030.10	3,0	6	4,0	25	70	2,95	2
205PM.030.11	205PH.030.11	3,0	6	4,0	30	70	2,95	2
205PM.030.12	205PH.030.12	3,0	6	4,0	35	80	2,95	2
205PM.030.13	205PH.030.13	3,0	6	4,0	40	80	2,95	2
205PM.040	205PH.040	4,0	4	10,0	-	50	-	2
205PM.040.1	205PH.040.1	4,0	6	10,0	-	50	-	2
205PM.040.2	205PH.040.2	4,0	6	6,0	8	50	3,85	2
205PM.040.3	205PH.040.3	4,0	6	6,0	10	50	3,85	2
205PM.040.4	205PH.040.4	4,0	6	6,0	12	50	3,85	2
205PM.040.5	205PH.040.5	4,0	6	6,0	14	60	3,85	2
205PM.040.6	205PH.040.6	4,0	6	6,0	16	60	3,85	2
205PM.040.7	205PH.040.7	4,0	6	6,0	18	60	3,85	2
205PM.040.8	205PH.040.8	4,0	6	6,0	20	60	3,85	2
205PM.040.9	205PH.040.9	4,0	6	6,0	25	70	3,85	2
205PM.040.10	205PH.040.10	4,0	6	6,0	30	70	3,85	2
205PM.040.11	205PH.040.11	4,0	6	6,0	35	80	3,85	2
205PM.040.12	205PH.040.12	4,0	6	6,0	40	80	3,85	2
205PM.040.13	205PH.040.13	4,0	6	6,0	45	90	3,85	2
205PM.040.14	205PH.040.14	4,0	6	6,0	50	90	3,85	2



\*d1=-0,01/-0,02

**Microfresa testa torica in metallo duro integrale gambo ø 4 e 6 mm**

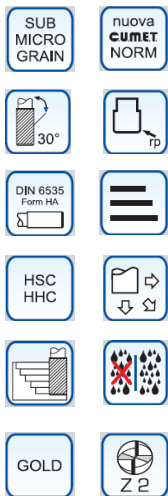


Solid carbide Miniature end mill with corner radius, shank 4-6mm

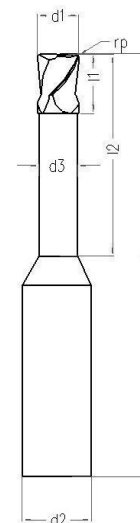
VHM- Mini Schafffraser mit Eckenradius, Schaft 4-6mm

Microfraise carbure avec rayon d'angle, queue 4-6mm

Микро фреза концевая твердосплавная с угловым радиусом, хвостовик 4 - 6 мм.



Code HRC ~55	Code HRC ~65	*d1 mm	d2h6 mm	rp mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205M.005	205H.005	0,5	4	0,05	0,9	-	50	-	2
205M.006	205H.006	0,6	4	0,05	1,0	-	50	-	2
205M.007	205H.007	0,7	4	0,05	1,2	-	50	-	2
205M.008	205H.008	0,8	4	0,05	1,4	-	50	-	2
205M.009	205H.009	0,9	4	0,05	1,5	-	50	-	2
205M.010	205H.010	1,0	4	0,1	2,5	-	50	-	2
205M.010.1	205H.010.1	1,0	4	0,2	2,5	-	50	-	2
205M.010.2	205H.010.2	1,0	4	0,3	2,5	-	50	-	2
205M.010.3	205H.010.3	1,0	4	0,1	1,5	4	50	0,95	2
205M.010.4	205H.010.4	1,0	4	0,2	1,5	4	50	0,95	2
205M.010.5	205H.010.5	1,0	4	0,1	1,5	6	50	0,95	2
205M.010.6	205H.010.6	1,0	4	0,2	1,5	6	50	0,95	2
205M.010.7	205H.010.7	1,0	4	0,3	1,5	6	50	0,95	2
205M.010.8	205H.010.8	1,0	4	0,1	1,5	8	50	0,95	2
205M.010.9	205H.010.9	1,0	4	0,2	1,5	8	50	0,95	2
205M.010.10	205H.010.10	1,0	4	0,2	1,5	10	50	0,95	2
205M.010.11	205H.010.11	1,0	4	0,3	1,5	10	50	0,95	2
205M.010.12	205H.010.12	1,0	4	0,2	1,5	12	50	0,95	2
205M.010.13	205H.010.13	1,0	4	0,3	1,5	12	50	0,95	2
205M.015	205H.015	1,5	4	0,1	3,0	-	50	-	2
205M.015.1	205H.015.1	1,5	4	0,2	3,0	-	50	-	2
205M.015.2	205H.015.2	1,5	4	0,3	3,0	-	50	-	2
205M.015.3	205H.015.3	1,5	4	0,5	3,0	-	50	-	2
205M.015.4	205H.015.4	1,5	4	0,2	2,2	6	50	1,45	2
205M.015.5	205H.015.5	1,5	4	0,3	2,2	6	50	1,45	2
205M.015.6	205H.015.6	1,5	4	0,2	2,2	8	50	1,45	2
205M.015.7	205H.015.7	1,5	4	0,3	2,2	8	50	1,45	2
205M.015.8	205H.015.8	1,5	4	0,2	2,2	10	50	1,45	2
205M.015.9	205H.015.9	1,5	4	0,3	2,2	10	50	1,45	2
205M.015.10	205H.015.10	1,5	4	0,2	2,2	12	50	1,45	2
205M.020	205H.020	2,0	4	0,1	5,0	-	50	-	2
205M.020.1	205H.020.1	2,0	4	0,2	5,0	-	50	-	2
205M.020.2	205H.020.2	2,0	4	0,3	5,0	-	50	-	2
205M.020.3	205H.020.3	2,0	4	0,5	5,0	-	50	-	2
205M.020.4	205H.020.4	2,0	4	0,1	3,0	6	50	1,95	2
205M.020.5	205H.020.5	2,0	4	0,2	3,0	6	50	1,95	2
205M.020.6	205H.020.6	2,0	4	0,3	3,0	6	50	1,95	2
205M.020.7	205H.020.7	2,0	4	0,5	3,0	6	50	1,95	2
205M.020.8	205H.020.8	2,0	4	0,1	3,0	8	50	1,95	2
205M.020.9	205H.020.9	2,0	4	0,2	3,0	8	50	1,95	2
205M.020.10	205H.020.10	2,0	4	0,3	3,0	8	50	1,95	2
205M.020.11	205H.020.11	2,0	4	0,5	3,0	8	50	1,95	2
205M.020.12	205H.020.12	2,0	4	0,1	3,0	10	50	1,95	2
205M.020.13	205H.020.13	2,0	4	0,2	3,0	10	50	1,95	2
205M.020.14	205H.020.14	2,0	4	0,3	3,0	10	50	1,95	2
205M.020.15	205H.020.15	2,0	4	0,5	3,0	10	50	1,95	2
205M.020.16	205H.020.16	2,0	4	0,1	3,0	12	50	1,95	2
205M.020.17	205H.020.17	2,0	4	0,2	3,0	12	50	1,95	2
205M.020.18	205H.020.18	2,0	4	0,3	3,0	12	50	1,95	2
205M.020.19	205H.020.19	2,0	4	0,5	3,0	12	50	1,95	2
205M.020.20	205H.020.20	2,0	4	0,5	3,0	16	60	1,95	2
205M.025	205H.025	2,5	6	0,2	6,0	-	50	-	2
205M.025.1	205H.025.1	2,5	6	0,3	6,0	-	50	-	2
205M.025.2	205H.025.2	2,5	6	0,5	6,0	-	50	-	2
205M.030	205H.030	3,0	6	0,1	8,0	-	50	-	2
205M.030.1	205H.030.1	3,0	6	0,2	8,0	-	50	-	2
205M.030.2	205H.030.2	3,0	6	0,3	8,0	-	50	-	2
205M.030.3	205H.030.3	3,0	6	0,5	8,0	-	50	-	2
205M.030.4	205H.030.4	3,0	6	1,0	8,0	-	50	-	2
205M.030.5	205H.030.5	3,0	6	0,1	4,0	10	60	2,85	2
205M.030.6	205H.030.6	3,0	6	0,2	4,0	10	60	2,85	2



\*d1=-0,01/-0,02  
rp+/-0,005mm

Solid carbide Miniature end mill with corner radius, shank 4-6mm

VHM- Mini Schafffraser mit Eckenradius, Schaft 4-6mm

Microfraise carbure avec rayon d'angle, queue 4-6mm

Микро фреза концевая твердосплавная с угловым радиусом, хвостовик 4 - 6 мм.

STEEL

ALLOY STEEL

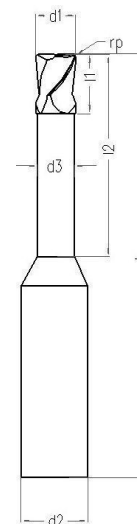
CAST IRON

INOX < 900 N/mm

TITANIUM < 1.100 N/mm



Code <b>HRC ~55</b>	Code <b>HRC ~65</b>	*d1 mm	d2h6 mm	rp mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205M.030.7	205H.030.7	3,0	6	0,3	4,0	10	60	2,85	2
205M.030.8	205H.030.8	3,0	6	0,5	4,0	10	60	2,85	2
205M.030.9	205H.030.9	3,0	6	0,1	4,0	12	60	2,85	2
205M.030.10	205H.030.10	3,0	6	0,2	4,0	12	60	2,85	2
205M.030.11	205H.030.11	3,0	6	0,3	4,0	12	60	2,85	2
205M.030.12	205H.030.12	3,0	6	0,5	4,0	12	60	2,85	2
205M.030.13	205H.030.13	3,0	6	0,1	4,0	16	60	2,85	2
205M.030.14	205H.030.14	3,0	6	0,2	4,0	16	60	2,85	2
205M.030.15	205H.030.15	3,0	6	0,3	4,0	16	60	2,85	2
205M.030.16	205H.030.16	3,0	6	0,5	4,0	16	60	2,85	2
205M.030.17	205H.030.17	3,0	6	0,5	4,0	20	60	2,85	2
205M.040	205H.040	4,0	6	0,1	8,0	-	50	-	2
205M.040.1	205H.040.1	4,0	6	0,2	8,0	-	50	-	2
205M.040.2	205H.040.2	4,0	6	0,3	8,0	-	50	-	2
205M.040.3	205H.040.3	4,0	6	0,5	8,0	-	50	-	2
205M.040.4	205H.040.4	4,0	6	1,0	8,0	-	50	-	2
205M.040.5	205H.040.5	4,0	6	0,1	6,0	10	50	3,85	2
205M.040.6	205H.040.6	4,0	6	0,1	6,0	12	50	3,85	2
205M.040.7	205H.040.7	4,0	6	0,2	6,0	12	50	3,85	2
205M.040.8	205H.040.8	4,0	6	0,3	6,0	12	50	3,85	2
205M.040.9	205H.040.9	4,0	6	0,5	6,0	12	50	3,85	2
205M.040.10	205H.040.10	4,0	6	0,1	6,0	16	60	3,85	2
205M.040.11	205H.040.11	4,0	6	0,2	6,0	16	60	3,85	2
205M.040.12	205H.040.12	4,0	6	0,3	6,0	16	60	3,85	2
205M.040.13	205H.040.13	4,0	6	0,5	6,0	16	60	3,85	2
205M.040.14	205H.040.14	4,0	6	0,3	6,0	20	60	3,85	2
205M.040.15	205H.040.15	4,0	6	0,5	6,0	20	60	3,85	2
205M.050	205H.050	5,0	6	0,1	10,0	-	60	-	2
205M.050.1	205H.050.1	5,0	6	0,2	10,0	-	60	-	2
205M.050.2	205H.050.2	5,0	6	0,3	10,0	-	60	-	2
205M.050.3	205H.050.3	5,0	6	0,5	10,0	-	60	-	2
205M.050.4	205H.050.4	5,0	6	1,0	10,0	-	60	-	2
205M.060	205H.060	6,0	6	0,1	12,0	-	60	-	2
205M.060.1	205H.060.1	6,0	6	0,2	12,0	-	60	-	2
205M.060.2	205H.060.2	6,0	6	0,3	12,0	-	60	-	2
205M.060.3	205H.060.3	6,0	6	0,5	12,0	-	60	-	2
205M.060.4	205H.060.4	6,0	6	1,0	12,0	-	60	-	2
205M.060.5	205H.060.5	6,0	6	1,5	12,0	-	60	-	2
205M.060.6	205H.060.6	6,0	6	2,0	12,0	-	60	-	2
205M.060.7	205H.060.7	6,0	6	0,1	8,0	16	60	5,85	2
205M.060.8	205H.060.8	6,0	6	0,2	8,0	16	60	5,85	2
205M.060.9	205H.060.9	6,0	6	0,3	8,0	16	60	5,85	2
205M.060.10	205H.060.10	6,0	6	0,5	8,0	16	60	5,85	2
205M.060.11	205H.060.11	6,0	6	1,0	8,0	16	60	5,85	2
205M.060.12	205H.060.12	6,0	6	1,5	8,0	16	60	5,85	2
205M.060.13	205H.060.13	6,0	6	0,1	8,0	20	60	5,85	2
205M.060.14	205H.060.14	6,0	6	0,2	8,0	20	60	5,85	2
205M.060.15	205H.060.15	6,0	6	0,3	8,0	20	60	5,85	2
205M.060.16	205H.060.16	6,0	6	0,5	8,0	20	60	5,85	2
205M.060.17	205H.060.17	6,0	6	1,0	8,0	20	60	5,85	2
205M.060.18	205H.060.18	6,0	6	1,5	8,0	20	60	5,85	2
205M.060.19	205H.060.19	6,0	6	1,0	8,0	25	70	5,85	2
205M.060.20	205H.060.20	6,0	6	1,5	8,0	25	70	5,85	2
205M.060.21	205H.060.21	6,0	6	1,0	8,0	30	70	5,85	2
205M.060.22	205H.060.22	6,0	6	1,5	8,0	30	70	5,85	2



\*d1=-0,01/-0,02  
rp+/-0,005mm

**Microfresa testa sferica in metallo duro integrale gambo ø 4 e 6 mm**

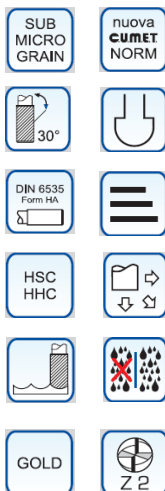


Solid carbide Miniature ball nose end mill shank 4-6mm

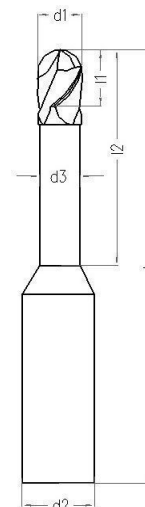
VHM- Mini Radiusfraser, Schaft 4-6mm

Microfraise carbure a bout hemispherique

Микро фреза концевая твердосплавная радиусная, хвостовик 4 - 6 мм



Code HRC ~55	Code HRC ~65	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205RM.001	205RH.001	0,1	4	0,12	-	50	4	2
205RM.001.1	205RH.001.1	0,1	4	0,12	1	50	0,07	2
205RM.001.2	205RH.001.2	0,1	4	0,12	2	50	0,07	2
205RM.0015	205RH.0015	0,15	4	0,18	-	50	-	2
205RM.002	205RH.002	0,2	4	0,25	-	50	-	2
205RM.002.1	205RH.002.1	0,2	4	0,25	1	50	0,17	2
205RM.002.2	205RH.002.2	0,2	4	0,25	2	50	0,17	2
205RM.003	205RH.003	0,3	4	0,4	-	50	0,27	2
205RM.003.1	205RH.003.1	0,3	4	0,4	1	50	0,27	2
205RM.003.2	205RH.003.2	0,3	4	0,4	2	50	0,27	2
205RM.003.3	205RH.003.3	0,3	4	0,4	3	50	0,27	2
205RM.004	205RH.004	0,4	4	0,5	-	50	-	2
205RM.004.1	205RH.004.1	0,4	4	0,5	1	50	0,37	2
205RM.004.2	205RH.004.2	0,4	4	0,5	2	50	0,37	2
205RM.004.3	205RH.004.3	0,4	4	0,5	3	50	0,37	2
205RM.004.4	205RH.004.4	0,4	4	0,5	4	50	0,37	2
205RM.004.5	205RH.004.5	0,4	4	0,5	5	50	0,37	2
205RM.005	205RH.005	0,5	4	0,6	-	50	-	2
205RM.005.1	205RH.005.1	0,5	4	0,6	2	50	0,45	2
205RM.005.2	205RH.005.2	0,5	4	0,6	3	50	0,45	2
205RM.005.3	205RH.005.3	0,5	4	0,6	4	50	0,45	2
205RM.005.4	205RH.005.4	0,5	4	0,6	5	50	0,45	2
205RM.005.5	205RH.005.5	0,5	4	0,6	6	50	0,45	2
205RM.005.6	205RH.005.6	0,5	4	0,6	8	50	0,45	2
205RM.005.7	205RH.005.7	0,5	4	0,6	10	50	0,45	2
205RM.006	205RH.006	0,6	4	0,7	-	50	-	2
205RM.006.1	205RH.006.1	0,6	4	0,7	2	50	0,55	2
205RM.006.2	205RH.006.2	0,6	4	0,7	3	50	0,55	2
205RM.006.3	205RH.006.3	0,6	4	0,7	4	50	0,55	2
205RM.006.4	205RH.006.4	0,6	4	0,7	5	50	0,55	2
205RM.006.5	205RH.006.5	0,6	4	0,7	6	50	0,55	2
205RM.006.6	205RH.006.6	0,6	4	0,7	8	50	0,55	2
205RM.006.7	205RH.006.7	0,6	4	0,7	10	50	0,55	2
205RM.007	205RH.007	0,7	4	0,8	-	50	-	2
205RM.007.1	205RH.007.1	0,7	4	0,8	2	50	0,65	2
205RM.007.2	205RH.007.2	0,7	4	0,8	3	50	0,65	2
205RM.007.3	205RH.007.3	0,7	4	0,8	4	50	0,65	2
205RM.007.4	205RH.007.4	0,7	4	0,8	5	50	0,65	2
205RM.007.5	205RH.007.5	0,7	4	0,8	6	50	0,65	2
205RM.007.6	205RH.007.6	0,7	4	0,8	8	50	0,65	2
205RM.007.7	205RH.007.7	0,7	4	0,8	10	50	0,65	2
205RM.008	205RH.008	0,8	4	0,9	-	50	-	2
205RM.008.1	205RH.008.1	0,8	4	0,9	2	50	0,75	2
205RM.008.2	205RH.008.2	0,8	4	0,9	3	50	0,75	2
205RM.008.3	205RH.008.3	0,8	4	0,9	4	50	0,75	2
205RM.008.4	205RH.008.4	0,8	4	0,9	5	50	0,75	2
205RM.008.5	205RH.008.5	0,8	4	0,9	6	50	0,75	2
205RM.008.6	205RH.008.6	0,8	4	0,9	8	50	0,75	2
205RM.008.7	205RH.008.7	0,8	4	0,9	10	50	0,75	2
205RM.009	205RH.009	0,9	4	1,0	-	50	-	2
205RM.009.1	205RH.009.1	0,9	4	1,0	3	50	0,85	2
205RM.009.2	205RH.009.2	0,9	4	1,0	4	50	0,85	2
205RM.009.3	205RH.009.3	0,9	4	1,0	5	50	0,85	2
205RM.009.4	205RH.009.4	0,9	4	1,0	6	50	0,85	2
205RM.009.5	205RH.009.5	0,9	4	1,0	8	50	0,85	2
205RM.009.6	205RH.009.6	0,9	4	1,0	10	50	0,85	2
205RM.010	205RH.010	1,0	4	2,0	-	50	-	2
205RM.010.1	205RH.010.1	1,0	6	2,0	-	50	-	2
205RM.010.2	205RH.010.2	1,0	4	1,2	2	50	0,95	2
205RM.010.3	205RH.010.3	1,0	4	1,2	3	50	0,95	2
205RM.010.4	205RH.010.4	1,0	4	1,2	4	50	0,95	2
205RM.010.5	205RH.010.5	1,0	4	1,2	5	50	0,95	2
205RM.010.6	205RH.010.6	1,0	4	1,2	6	50	0,95	2
205RM.010.7	205RH.010.7	1,0	4	1,2	8	50	0,95	2



\*d1=-0,01/-0,02  
R+/-0,005mm



**Microfresa testa sferica in metallo duro integrale gambo ø 4 e 6 mm**



Solid carbide Miniature ball nose end mill shank 4-6mm

VHM- Mini Radiusfraser, Schaft 4-6mm

Microfraise carbure a bout hemispherique

Микро фреза концевая твердосплавная радиусная, хвостовик 4 - 6 мм

STEEL

ALLOY STEEL

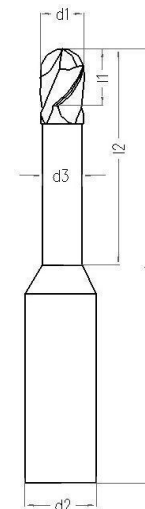
CAST IRON

INOX < 900 N/mm

TITANIUM < 1.100 N/mm



Code HRC ~55	Code HRC ~65	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205RM.010.8	205RH.010.8	1,0	4	1,2	10	50	0,95	2
205RM.010.9	205RH.010.9	1,0	4	1,2	12	50	0,95	2
205RM.010.10	205RH.010.10	1,0	4	1,2	14	50	0,95	2
205RM.010.11	205RH.010.11	1,0	4	1,2	16	60	0,95	2
205RM.010.12	205RH.010.12	1,0	4	1,2	18	60	0,95	2
205RM.010.13	205RH.010.13	1,0	4	1,2	20	60	0,95	2
205RM.011	205RH.011	1,1	4	2,0	-	50	-	2
205RM.012	205RH.012	1,2	4	3,0	-	50	-	2
205RM.012.1	205RH.012.1	1,2	4	1,4	3	50	1,15	2
205RM.012.2	205RH.012.2	1,2	4	1,4	4	50	1,15	2
205RM.012.3	205RH.012.3	1,2	4	1,4	5	50	1,15	2
205RM.012.4	205RH.012.4	1,2	4	1,4	6	50	1,15	2
205RM.012.5	205RH.012.5	1,2	4	1,4	8	50	1,15	2
205RM.012.6	205RH.012.6	1,2	4	1,4	10	50	1,15	2
205RM.012.7	205RH.012.7	1,2	4	1,4	12	50	1,15	2
205RM.012.8	205RH.012.8	1,2	4	1,4	14	50	1,15	2
205RM.012.9	205RH.012.9	1,2	4	1,4	16	60	1,15	2
205RM.013	205RH.013	1,3	4	3,0	-	50	-	2
205RM.014	205RH.014	1,4	4	3,0	-	50	-	2
205RM.014.1	205RH.014.1	1,4	4	1,7	4	50	1,35	2
205RM.014.2	205RH.014.2	1,4	4	1,7	5	50	1,35	2
205RM.014.3	205RH.014.3	1,4	4	1,7	6	50	1,35	2
205RM.014.4	205RH.014.4	1,4	4	1,7	8	50	1,35	2
205RM.014.5	205RH.014.5	1,4	4	1,7	10	50	1,35	2
205RM.014.6	205RH.014.6	1,4	4	1,7	12	50	1,35	2
205RM.015	205RH.015	1,5	4	3,0	-	50	-	2
205RM.015.1	205RH.015.1	1,5	6	3,0	-	50	-	2
205RM.015.2	205RH.015.2	1,5	4	1,8	4	50	1,45	2
205RM.015.3	205RH.015.3	1,5	4	1,8	5	50	1,45	2
205RM.015.4	205RH.015.4	1,5	4	1,8	6	50	1,45	2
205RM.015.5	205RH.015.5	1,5	4	1,8	8	50	1,45	2
205RM.015.6	205RH.015.6	1,5	4	1,8	10	50	1,45	2
205RM.015.7	205RH.015.7	1,5	4	1,8	12	50	1,45	2
205RM.015.8	205RH.015.8	1,5	4	1,8	14	50	1,45	2
205RM.015.9	205RH.015.9	1,5	4	1,8	16	60	1,45	2
205RM.015.10	205RH.015.10	1,5	4	1,8	18	60	1,45	2
205RM.015.11	205RH.015.11	1,5	4	1,8	20	60	1,45	2
205RM.016	205RH.016	1,6	4	3,0	-	50	-	2
205RM.016.1	205RH.016.1	1,6	4	1,9	4	50	1,55	2
205RM.016.2	205RH.016.2	1,6	4	1,9	5	50	1,55	2
205RM.016.3	205RH.016.3	1,6	4	1,9	6	50	1,55	2
205RM.016.4	205RH.016.4	1,6	4	1,9	8	50	1,55	2
205RM.016.5	205RH.016.5	1,6	4	1,9	10	50	1,55	2
205RM.016.6	205RH.016.6	1,6	4	1,9	12	50	1,55	2
205RM.016.7	205RH.016.7	1,6	4	1,9	14	50	1,55	2
205RM.016.8	205RH.016.8	1,6	4	1,9	16	60	1,55	2
205RM.016.9	205RH.016.9	1,6	4	1,9	18	60	1,55	2
205RM.016.10	205RH.016.10	1,6	4	1,9	20	60	1,55	2
205RM.017	205RH.017	1,7	4	3,0	-	50	-	2
205RM.018	205RH.018	1,8	4	4,0	-	50	-	2
205RM.019	205RH.019	1,9	4	4,0	-	50	-	2
205RM.020	205RH.020	2,0	4	5,0	-	50	-	2
205RM.020.1	205RH.020.1	2,0	6	5,0	-	50	-	2
205RM.020.2	205RH.020.2	2,0	4	2,2	4	50	1,95	2
205RM.020.3	205RH.020.3	2,0	4	2,2	6	50	1,95	2
205RM.020.4	205RH.020.4	2,0	4	2,2	8	50	1,95	2
205RM.020.5	205RH.020.5	2,0	4	2,2	10	50	1,95	2
205RM.020.6	205RH.020.6	2,0	4	2,2	12	50	1,95	2
205RM.020.7	205RH.020.7	2,0	4	2,2	14	50	1,95	2
205RM.020.8	205RH.020.8	2,0	4	2,2	16	60	1,95	2
205RM.020.9	205RH.020.9	2,0	4	2,2	18	60	1,95	2
205RM.020.10	205RH.020.10	2,0	4	2,2	20	60	1,95	2
205RM.020.11	205RH.020.11	2,0	4	2,2	22	60	1,95	2
205RM.020.12	205RH.020.12	2,0	4	2,2	25	70	1,95	2



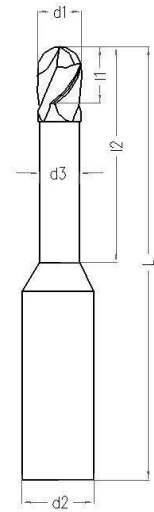
\*d1=-0,01/-0,02  
R+/-0,005mm

Solid carbide Miniature ball nose end mill shank 4-6mm  
 VHM- Mini Radiusfraser, Schaft 4-6mm  
 Microfraise carbure a bout hemispherique  
 Микро фреза концевая твердосплавная радиусная, хвостовик 4 - 6 мм

STEEL ALLOY STEEL CAST IRON INOX < 900 N/mm TITANIUM < 1.100 N/mm

SUB MICRO GRAIN nuova CUMET NORM  
 30°  
 DIN 6535 Form HA  
 HSC HHC  
 GOLD Z2

Code HRC ~55	Code HRC ~65	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
205RM.020.13	205RH.020.13	2,0	4	2,2	30	70	1,95	2
205RM.022	205RH.022	2,2	4	5,0	-	50	-	2
205RM.025	205RH.025	2,5	4	6,0	-	50	-	2
205RM.025.1	205RH.025.1	2,5	6	6,0	-	50	-	2
205RM.025.2	205RH.025.2	2,5	6	3,0	10	50	2,45	2
205RM.025.3	205RH.025.3	2,5	6	3,0	12	50	2,45	2
205RM.025.4	205RH.025.4	2,5	6	3,0	14	60	2,45	2
205RM.025.5	205RH.025.5	2,5	6	3,0	16	60	2,45	2
205RM.025.6	205RH.025.6	2,5	6	3,0	20	60	2,45	2
205RM.025.7	205RH.025.7	2,5	6	3,0	25	70	2,45	2
205RM.030	205RH.030	3,0	4	8,0	-	60	-	2
205RM.030.1	205RH.030.1	3,0	6	8,0	-	60	-	2
205RM.030.2	205RH.030.2	3,0	6	3,6	6	50	2,95	2
205RM.030.3	205RH.030.3	3,0	6	3,6	8	50	2,95	2
205RM.030.4	205RH.030.4	3,0	6	3,6	10	50	2,95	2
205RM.030.5	205RH.030.5	3,0	6	3,6	12	50	2,95	2
205RM.030.6	205RH.030.6	3,0	6	3,6	14	60	2,95	2
205RM.030.7	205RH.030.7	3,0	6	3,6	16	60	2,95	2
205RM.030.8	205RH.030.8	3,0	6	3,6	18	60	2,95	2
205RM.030.9	205RH.030.9	3,0	6	3,6	20	60	2,95	2
205RM.030.10	205RH.030.10	3,0	6	3,6	25	70	2,95	2
205RM.030.11	205RH.030.11	3,0	6	3,6	30	70	2,95	2
205RM.030.12	205RH.030.12	3,0	6	3,6	35	80	2,95	2
205RM.030.13	205RH.030.13	3,0	6	3,6	40	80	2,95	2
205RM.040	205RH.040	4,0	4	8,0	-	70	-	2
205RM.040.1	205RH.040.1	4,0	6	8,0	-	70	-	2
205RM.040.2	205RH.040.2	4,0	6	5,0	8	50	3,85	2
205RM.040.3	205RH.040.3	4,0	6	5,0	10	50	3,85	2
205RM.040.4	205RH.040.4	4,0	6	5,0	12	50	3,85	2
205RM.040.5	205RH.040.5	4,0	6	5,0	14	60	3,85	2
205RM.040.6	205RH.040.6	4,0	6	5,0	16	60	3,85	2
205RM.040.7	205RH.040.7	4,0	6	5,0	18	60	3,85	2
205RM.040.8	205RH.040.8	4,0	6	5,0	20	60	3,85	2
205RM.040.9	205RH.040.9	4,0	6	5,0	25	70	3,85	2
205RM.040.10	205RH.040.10	4,0	6	5,0	30	70	3,85	2
205RM.040.11	205RH.040.11	4,0	6	5,0	35	80	3,85	2
205RM.040.12	205RH.040.12	4,0	6	5,0	40	80	3,85	2
205RM.040.13	205RH.040.13	4,0	6	5,0	45	90	3,85	2
205RM.040.14	205RH.040.14	4,0	6	5,0	50	90	3,85	2



\*d1=-0,01/-0,02  
 R+/-0,005mm

Trusted knowledge

**Microfresa testa piana in metallo duro integrale gambo ø 4 e 6 mm**



Solid carbide Miniature flat nose end mill shank 4-6mm DLC coating

VHM- Mini Gesenkfraser, Schaft 4-6mm DLC Beschichtung

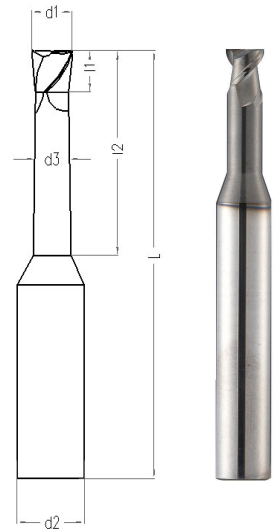
Microfraise carbure a bout plat Revetement DLC

Микро фреза концевая твердосплавная с плоским торцом, хвостовик 4 - 6 мм, износостойкое покрытие DLC

Copper















Code	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
207PM.005	0,5	4	0,8	2	50	0,45	2
207PM.005.1	0,5	4	0,8	4	50	0,45	2
207PM.005.2	0,5	4	0,8	6	50	0,45	2
207PM.005.3	0,5	4	0,8	8	50	0,45	2
207PM.005.4	0,5	4	0,8	10	50	0,45	2
207PM.006	0,6	4	0,9	2	50	0,55	2
207PM.006.1	0,6	4	0,9	4	50	0,55	2
207PM.006.2	0,6	4	0,9	6	50	0,55	2
207PM.006.3	0,6	4	0,9	8	50	0,55	2
207PM.006.4	0,6	4	0,9	10	50	0,55	2
207PM.008	0,8	4	1,2	2	50	0,75	2
207PM.008.1	0,8	4	1,2	4	50	0,75	2
207PM.008.2	0,8	4	1,2	6	50	0,75	2
207PM.008.3	0,8	4	1,2	8	50	0,75	2
207PM.008.4	0,8	4	1,2	10	50	0,75	2
207PM.010	1,0	4	1,5	4	50	0,95	2
207PM.010.1	1,0	4	1,5	6	50	0,95	2
207PM.010.2	1,0	4	1,5	8	50	0,95	2
207PM.010.3	1,0	4	1,5	10	50	0,95	2
207PM.010.4	1,0	4	1,5	12	50	0,95	2
207PM.010.5	1,0	4	1,5	16	60	0,95	2
207PM.015	1,5	4	2,2	4	50	1,45	2
207PM.015.1	1,5	4	2,2	6	50	1,45	2
207PM.015.2	1,5	4	2,2	8	50	1,45	2
207PM.015.3	1,5	4	2,2	10	50	1,45	2
207PM.015.4	1,5	4	2,2	12	50	1,45	2
207PM.015.5	1,5	4	2,2	16	60	1,45	2
207PM.020	2,0	4	3,0	4	50	1,95	2
207PM.020.1	2,0	4	3,0	6	50	1,95	2
207PM.020.2	2,0	4	3,0	8	50	1,95	2
207PM.020.3	2,0	4	3,0	10	50	1,95	2
207PM.020.4	2,0	4	3,0	12	50	1,95	2
207PM.020.5	2,0	4	3,0	14	50	1,95	2
207PM.020.6	2,0	4	3,0	16	60	1,95	2
207PM.020.7	2,0	4	3,0	20	60	1,95	2
207PM.030	3,0	6	4,0	6	50	2,85	2
207PM.030.1	3,0	6	4,0	8	50	2,85	2
207PM.030.2	3,0	6	4,0	10	50	2,85	2
207PM.030.3	3,0	6	4,0	12	50	2,85	2
207PM.030.4	3,0	6	4,0	16	60	2,85	2
207PM.030.5	3,0	6	4,0	20	60	2,85	2
207PM.030.6	3,0	6	4,0	30	70	2,85	2
207PM.040	4,0	6	6,0	8	50	3,85	2
207PM.040.1	4,0	6	6,0	10	50	3,85	2
207PM.040.2	4,0	6	6,0	12	50	3,85	2
207PM.040.3	4,0	6	6,0	16	60	3,85	2
207PM.040.4	4,0	6	6,0	20	60	3,85	2
207PM.040.5	4,0	6	6,0	25	70	3,85	2
207PM.040.6	4,0	6	6,0	30	70	3,85	2
207PM.060	6,0	6	8,0	20	60	5,85	2
207PM.060.1	6,0	6	8,0	30	70	5,85	2



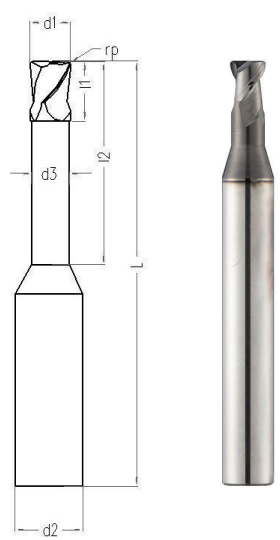
\*d1=-0,01/-0,02

Solid carbide Miniature end mill with corner radius, shank 4-6mm, DLC coating  
 VHM- Mini Schafffraser mit Eckenradius, Schaft 4-6mm, DLC Beschichtung  
 Microfraise carbure avec rayon d'angle, queue 4-6mm, avec revêtement DLC  
 Микро фреза концевая твердосплавная с угловым радиусом, хвостовик 4 - 6 мм, износостойкое покрытие DLC

Copper

Code	*d1 mm	d2h6 mm	rp mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
207M.010	1,0	4	0,2	1,5	6	50	0,95	2
207M.010.1	1,0	4	0,2	1,5	8	50	0,95	2
207M.015	1,5	4	0,3	2,0	6	50	1,45	2
207M.015.1	1,5	4	0,3	2,0	8	50	1,45	2
207M.015.2	1,5	4	0,3	2,2	10	50	1,45	2
207M.020	2,0	4	0,3	3,0	6	50	1,95	2
207M.020.1	2,0	4	0,5	3,0	6	50	1,95	2
207M.020.2	2,0	4	0,3	3,0	8	50	1,95	2
207M.020.3	2,0	4	0,5	3,0	8	50	1,95	2
207M.020.4	2,0	4	0,3	3,0	10	50	1,95	2
207M.020.5	2,0	4	0,5	3,0	10	50	1,95	2
207M.030	3,0	6	0,3	4,0	10	60	2,85	2
207M.030.1	3,0	6	0,5	4,0	10	60	2,85	2
207M.030.2	3,0	6	0,3	4,0	12	60	2,85	2
207M.030.3	3,0	6	0,5	4,0	12	60	2,85	2
207M.030.4	3,0	6	0,3	4,0	16	60	2,85	2
207M.030.5	3,0	6	0,5	4,0	16	60	2,85	2
207M.040	4,0	6	0,3	6,0	12	60	3,85	2
207M.040.1	4,0	6	0,5	6,0	12	60	3,85	2
207M.040.2	4,0	6	0,3	6,0	16	60	3,85	2
207M.040.3	4,0	6	0,5	6,0	16	60	3,85	2
207M.040.4	4,0	6	0,3	6,0	20	60	3,85	2
207M.040.5	4,0	6	0,5	6,0	20	60	3,85	2
207M.060	6,0	6	0,3	8,0	16	60	5,85	2
207M.060.1	6,0	6	0,5	8,0	16	60	5,85	2
207M.060.2	6,0	6	0,3	8,0	20	60	5,85	2
207M.060.3	6,0	6	0,5	8,0	20	60	5,85	2



\*d1=-0,01/-0,02  
 rp+/-0,005mm



Solid carbide Miniature ball nose end mill shank 4-6mm DLC coated

VHM- Mini Radiusfraser, Schaft 4-6mm DLC Beschichtung DLC

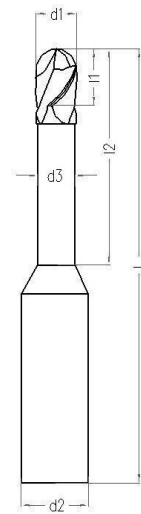
Microfraise carbure a bout hemispherique avec revetement DLC

Микро фреза концевая твердосплавная радиусная, хвостовик 4 - 6 мм, износостойкое покрытие DLC

Copper



Code	*d1 mm	d2h6 mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
<b>207RM.005</b>	<b>0,5</b>	4	0,6	2	50	0,45	2
<b>207RM.005.1</b>	<b>0,5</b>	4	0,6	4	50	0,45	2
<b>207RM.005.2</b>	<b>0,5</b>	4	0,6	6	50	0,45	2
<b>207RM.005.3</b>	<b>0,5</b>	4	0,6	8	50	0,45	2
<b>207RM.005.4</b>	<b>0,5</b>	4	0,6	10	50	0,45	2
<b>207RM.006</b>	<b>0,6</b>	4	0,7	2	50	0,55	2
<b>207RM.006.1</b>	<b>0,6</b>	4	0,7	4	50	0,55	2
<b>207RM.006.2</b>	<b>0,6</b>	4	0,7	6	50	0,55	2
<b>207RM.006.3</b>	<b>0,6</b>	4	0,7	8	50	0,55	2
<b>207RM.006.4</b>	<b>0,6</b>	4	0,7	10	50	0,55	2
<b>207RM.008</b>	<b>0,8</b>	4	0,9	2	50	0,75	2
<b>207RM.008.1</b>	<b>0,8</b>	4	0,9	4	50	0,75	2
<b>207RM.008.2</b>	<b>0,8</b>	4	0,9	6	50	0,75	2
<b>207RM.008.3</b>	<b>0,8</b>	4	0,9	8	50	0,75	2
<b>207RM.008.4</b>	<b>0,8</b>	4	0,9	10	50	0,75	2
<b>207RM.010</b>	<b>1,0</b>	4	1,2	4	50	0,95	2
<b>207RM.010.1</b>	<b>1,0</b>	4	1,2	6	50	0,95	2
<b>207RM.010.2</b>	<b>1,0</b>	4	1,2	8	50	0,95	2
<b>207RM.010.3</b>	<b>1,0</b>	4	1,2	10	50	0,95	2
<b>207RM.010.4</b>	<b>1,0</b>	4	1,2	12	50	0,95	2
<b>207RM.010.5</b>	<b>1,0</b>	4	1,2	16	60	0,95	2
<b>207RM.015</b>	<b>1,5</b>	4	1,8	4	50	1,45	2
<b>207RM.015.1</b>	<b>1,5</b>	4	1,8	6	50	1,45	2
<b>207RM.015.2</b>	<b>1,5</b>	4	1,8	8	50	1,45	2
<b>207RM.015.3</b>	<b>1,5</b>	4	1,8	10	50	1,45	2
<b>207RM.015.4</b>	<b>1,5</b>	4	1,8	12	50	1,45	2
<b>207RM.015.5</b>	<b>1,5</b>	4	1,8	16	60	1,45	2
<b>207RM.020</b>	<b>2,0</b>	4	2,2	4	50	1,95	2
<b>207RM.020.1</b>	<b>2,0</b>	4	2,2	6	50	1,95	2
<b>207RM.020.2</b>	<b>2,0</b>	4	2,2	8	50	1,95	2
<b>207RM.020.3</b>	<b>2,0</b>	4	2,2	10	50	1,95	2
<b>207RM.020.4</b>	<b>2,0</b>	4	2,2	12	50	1,95	2
<b>207RM.020.5</b>	<b>2,0</b>	4	2,2	14	50	1,95	2
<b>207RM.020.6</b>	<b>2,0</b>	4	2,2	16	60	1,95	2
<b>207RM.020.7</b>	<b>2,0</b>	4	2,2	20	60	1,95	2
<b>207RM.030</b>	<b>3,0</b>	6	3,6	6	50	2,85	2
<b>207RM.030.1</b>	<b>3,0</b>	6	3,6	8	50	2,85	2
<b>207RM.030.2</b>	<b>3,0</b>	6	3,6	10	50	2,85	2
<b>207RM.030.3</b>	<b>3,0</b>	6	3,6	12	50	2,85	2
<b>207RM.030.4</b>	<b>3,0</b>	6	3,6	16	60	2,85	2
<b>207RM.030.5</b>	<b>3,0</b>	6	3,6	20	60	2,85	2
<b>207RM.030.6</b>	<b>3,0</b>	6	3,6	30	70	2,85	2
<b>207RM.040</b>	<b>4,0</b>	6	5,0	8	50	3,85	2
<b>207RM.040.1</b>	<b>4,0</b>	6	5,0	10	50	3,85	2
<b>207RM.040.2</b>	<b>4,0</b>	6	5,0	12	50	3,85	2
<b>207RM.040.3</b>	<b>4,0</b>	6	5,0	16	60	3,85	2
<b>207RM.040.4</b>	<b>4,0</b>	6	5,0	20	60	3,85	2
<b>207RM.040.5</b>	<b>4,0</b>	6	5,0	25	70	3,85	2
<b>207RM.040.6</b>	<b>4,0</b>	6	5,0	30	70	3,85	2
<b>207RM.060</b>	<b>6,0</b>	6	7,0	20	60	5,85	2
<b>207RM.060.1</b>	<b>6,0</b>	6	7,0	30	70	5,85	2



\*d1=-0,01/-0,02  
R+/-0,005mm

## Fresa doppio raggio ad alte prestazioni in metallo duro integrale



Solid carbide end mills double radius High Performance

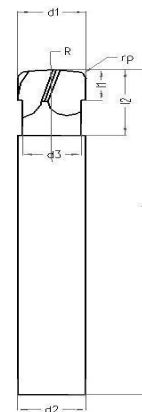
VHM schafffraser Double Beam Schwingungsdämpfer

Fraise carbure bout avec double rayon d'angle à Haut Performance

Фреза концевая твердосплавная с угловым радиусом для обработки сверхтвердых материалов



Code	d1h8 mm	d2h6 mm	R mm	rp mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
<b>Y200RR.060</b>	<b>6</b>	<b>6</b>	<b>5</b>	<b>1,5</b>	<b>6</b>	<b>12</b>	<b>100</b>	<b>5,9</b>	<b>2</b>
<b>Y200RR.060.1</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>1</b>	<b>6</b>	<b>12</b>	<b>100</b>	<b>5,9</b>	<b>2</b>
<b>Y200RR.080</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>1,5</b>	<b>8</b>	<b>16</b>	<b>100</b>	<b>7,8</b>	<b>2</b>
<b>Y200RR.100</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>2</b>	<b>10</b>	<b>20</b>	<b>100</b>	<b>9,8</b>	<b>2</b>
<b>Y200RR.120</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>2</b>	<b>12</b>	<b>25</b>	<b>100</b>	<b>11,8</b>	<b>2</b>
<b>Y200RR.120.1</b>	<b>12</b>	<b>12</b>	<b>15</b>	<b>2</b>	<b>12</b>	<b>25</b>	<b>100</b>	<b>11,8</b>	<b>2</b>
<b>Y200RR.160</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>3</b>	<b>20</b>	<b>32</b>	<b>100</b>	<b>15,7</b>	<b>2</b>
<b>Y200RR.160.1</b>	<b>16</b>	<b>16</b>	<b>20</b>	<b>2</b>	<b>20</b>	<b>32</b>	<b>100</b>	<b>15,7</b>	<b>2</b>



R-rp+/-0,005mm

## Fresa testa piana alto avanzamento in metallo duro integrale



Solid carbide end mill flat nose for High Feed

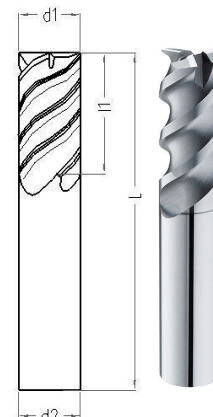
VHM - schafffraser für Hoch Vorschub

Fraise carbure a bout plat pour Haut Avances

Фреза концевая твердосплавная с плоским торцом для обработки с высокими параметрами подачи



Code	d1h8 mm	d2h6 mm	rp mm	l1 mm	L mm	Z no.
<b>Y300.020</b>	<b>2</b>	<b>6</b>		<b>4</b>	<b>50</b>	<b>3</b>
<b>Y300.025</b>	<b>2,5</b>	<b>6</b>		<b>5</b>	<b>50</b>	<b>3</b>
<b>Y300.030</b>	<b>3</b>	<b>6</b>	-	<b>6</b>	<b>50</b>	<b>3</b>
<b>Y300.035</b>	<b>3,5</b>	<b>6</b>		<b>7</b>	<b>50</b>	<b>3</b>
<b>Y300.040</b>	<b>4</b>	<b>6</b>	-	<b>8</b>	<b>50</b>	<b>3</b>
<b>Y300.045</b>	<b>4,5</b>	<b>6</b>		<b>9</b>	<b>50</b>	<b>3</b>
<b>Y300.050</b>	<b>5</b>	<b>6</b>	-	<b>10</b>	<b>50</b>	<b>3</b>
<b>Y300.055</b>	<b>5,5</b>	<b>6</b>		<b>11</b>	<b>50</b>	<b>3</b>
<b>Y300.060</b>	<b>6</b>	<b>6</b>	-	<b>13</b>	<b>60</b>	<b>3</b>
<b>Y300.065</b>	<b>6,5</b>	<b>8</b>		<b>16</b>	<b>60</b>	<b>3</b>
<b>Y300.070</b>	<b>7</b>	<b>8</b>		<b>16</b>	<b>60</b>	<b>3</b>
<b>Y300.075</b>	<b>7,5</b>	<b>8</b>		<b>16</b>	<b>60</b>	<b>3</b>
<b>Y300.080</b>	<b>8</b>	<b>8</b>	-	<b>19</b>	<b>60</b>	<b>3</b>
<b>Y300.085</b>	<b>8,5</b>	<b>10</b>		<b>19</b>	<b>70</b>	<b>3</b>
<b>Y300.090</b>	<b>9</b>	<b>10</b>		<b>19</b>	<b>70</b>	<b>3</b>
<b>Y300.095</b>	<b>9,5</b>	<b>10</b>		<b>19</b>	<b>70</b>	<b>3</b>
<b>Y300.100</b>	<b>10</b>	<b>10</b>	-	<b>22</b>	<b>70</b>	<b>3</b>
<b>Y300.110</b>	<b>11</b>	<b>12</b>		<b>22</b>	<b>75</b>	<b>3</b>
<b>Y300.120</b>	<b>12</b>	<b>12</b>	-	<b>26</b>	<b>100</b>	<b>3</b>
<b>Y300.130</b>	<b>13</b>	<b>14</b>		<b>26</b>	<b>100</b>	<b>3</b>
<b>Y300.140</b>	<b>14</b>	<b>14</b>		<b>26</b>	<b>100</b>	<b>3</b>
<b>Y300.150</b>	<b>15</b>	<b>16</b>		<b>26</b>	<b>100</b>	<b>3</b>
<b>Y300.160</b>	<b>16</b>	<b>16</b>	-	<b>30</b>	<b>100</b>	<b>3</b>
<b>Y300.200</b>	<b>20</b>	<b>20</b>	-	<b>32</b>	<b>100</b>	<b>3</b>



## Fresa testa piana alto avanzamento in metallo duro integrale

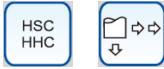


Solid carbide High Feed end mill flat nose

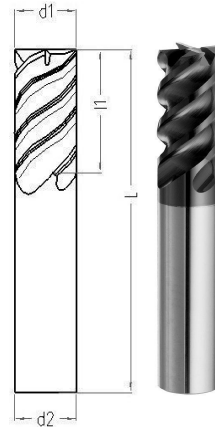
VHM - schafffräser für Hoch Vorschub

Fraise carbure a bout plat pour Haut Avances

Фреза концевая твердосплавная с плоским торцом для обработки с высокими параметрами подачи



Code	d1h8 mm	d2h6 mm	rp mm	l1 mm	L mm	Z no.
Y400.030	3	6	-	8	60	4
Y400.040	4	6	-	11	60	4
Y400.050	5	6	-	13	60	4
Y400.060	6	6	-	13	60	4
Y400.080	8	8	-	19	75	4
Y400.100	10	10	-	22	80	4
Y400.120	12	12	-	25	100	4
Y400.160	16	16	-	30	100	4
Y400.200	20	20	-	40	100	4



## Fresa testa torica alto avanzamento in metallo duro integrale



Solid carbide High Feed end mill with corner radius

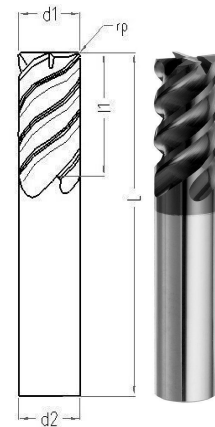
VHM -Fräser mit Eckenradius High Feed

Fraise carbure avec rayon d'angle pour Haut Avances

Фреза концевая твердосплавная с угловым радиусом для обработки с высокими параметрами подачи



Code	d1h8 mm	d2h6 mm	rp mm	l1 mm	L mm	Z no.
Y400.030.02	3	6	0,2	8	60	4
Y400.030.05	3	6	0,5	8	60	4
Y400.040.02	4	6	0,2	11	60	4
Y400.040.05	4	6	0,5	11	60	4
Y400.040.1	4	6	1,0	11	60	4
Y400.050.02	5	6	0,2	13	60	4
Y400.050.05	5	6	0,5	13	60	4
Y400.050.1	5	6	1,0	13	60	4
Y400.060.03	6	6	0,3	13	60	4
Y400.060.05	6	6	0,5	13	60	4
Y400.060.1	6	6	1,0	13	60	4
Y400.060.15	6	6	1,5	13	60	4
Y400.080.03	8	8	0,3	19	75	4
Y400.080.05	8	8	0,5	19	75	4
Y400.080.1	8	8	1,0	19	75	4
Y400.080.15	8	8	1,5	19	75	4
Y400.080.2	8	8	2,0	19	75	4
Y400.100.03	10	10	0,3	22	80	4
Y400.100.05	10	10	0,5	22	80	4
Y400.100.1	10	10	1,0	22	80	4
Y400.100.15	10	10	1,5	22	80	4
Y400.100.2	10	10	2,0	22	80	4
Y400.100.3	10	10	3,0	22	80	4
Y400.120.05	12	12	0,5	25	100	4
Y400.120.1	12	12	1,0	25	100	4
Y400.120.15	12	12	1,5	25	100	4
Y400.120.2	12	12	2,0	25	100	4
Y400.120.3	12	12	3,0	25	100	4
Y400.160.1	16	16	1,0	30	100	4
Y400.160.15	16	16	1,5	30	100	4
Y400.160.2	16	16	2,0	30	100	4
Y400.160.3	16	16	3,0	30	100	4
Y400.160.5	16	16	5,0	30	100	4
Y400.200.1	20	20	1,0	40	100	4
Y400.200.15	20	20	1,5	40	100	4
Y400.200.2	20	20	2,0	40	100	4
Y400.200.3	20	20	3,0	40	100	4
Y400.200.5	20	20	5,0	40	100	4



rp +/- 0,005mm

Solid carbide extreme milling end mills corner radius  
 VHM schafffraser Eckenradius für extremzerspanung von Stahl  
 Fraise carbure bout avec rayon d'angle pour extreme fraissage  
 Фреза концевая твердосплавная с угловым радиусом для обработки сверхтвердых материалов

HRC < 65    CARBON STEEL    ALLOY STEEL    CAST IRON    NE NON FERROUS    TITANIUM < 1.100 N/mm

SUB MICRO GRAIN    nuova CUMET NORM

 0°    

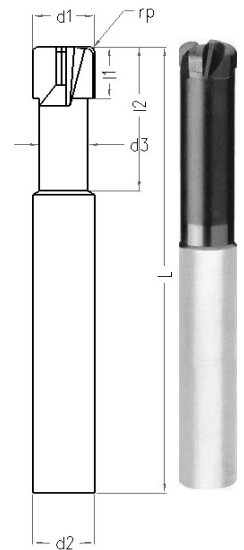
DIN 6535 Form HA    

HSC HHC    

GOLD

Code	d1h8 mm	d2h6 mm	rp mm	l1 mm	l2 mm	L mm	d3 mm	Z no.
Y400D.020.03	2	6	0,3	0,8	5	60	1,8	4
Y400D.020.05	2	6	0,5	0,8	5	60	1,8	4
Y400D.030.05	3	6	0,5	1,2	6	60	2,7	4
Y400D.030.08	3	6	0,75	1,2	6	60	2,7	4
Y400D.030.1	3	6	1	1,2	6	60	2,7	4
Y400D.040.05	4	6	0,5	1,6	9	75	3,6	4
Y400D.040.1	4	6	1	1,6	9	75	3,6	4
Y400D.050.05	5	6	0,5	2	12	75	4,6	4
Y400D.050.1	5	6	1	2	12	75	4,6	4
Y400D.050.12	5	6	1,2	2	12	75	4,6	4
Y400D.060.05	6	6	0,5	2,5	13	100	5,4	4
Y400D.060.1	6	6	1	2,5	13	100	5,4	4
Y400D.060.15	6	6	1,5	2,5	13	100	5,4	4
Y400D.080.05	8	8	0,5	3,5	16	100	7,2	4
Y400D.080.1	8	8	1	3,5	16	100	7,2	4
Y400D.080.15	8	8	1,5	3,5	16	100	7,2	4
Y400D.080.2	8	8	2	3,5	16	100	7,2	4
Y400D.100.05	10	10	0,5	4	20	100	9,0	4
Y400D.100.1	10	10	1	4	20	100	9,0	4
Y400D.100.15	10	10	1,5	4	20	100	9,0	4
Y400D.100.2	10	10	2	4	20	100	9,0	4
Y400D.120.05	12	12	0,5	5	25	100	11,0	4
Y400D.120.1	12	12	1	5	25	100	11,0	4
Y400D.120.15	12	12	1,5	5	25	100	11,0	4
Y400D.120.2	12	12	2	5	25	100	11,0	4
Y400D.160.05	16	16	0,5	7	32	100	15,0	4
Y400D.160.1	16	16	1	7	32	100	15,0	4
Y400D.160.15	16	16	1,5	7	32	100	15,0	4
Y400D.160.2	16	16	2	7	32	100	15,0	4
Y400D.160.3	16	16	3	7	32	100	15,0	4



rp +/- 0,005mm

Trusted precision

nuova CUMET s.r.l.

ZOL



Valori indicativi di fresatura  
Standard values for milling  
Valeurs indicatives pour fraisage  
Richwerte für das fräsen

### LOW SPEED CODE Y200RR

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm <sup>2</sup>						<40HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
6	5400	1000	0.04	4900	781	0.04	4210	590	0.03
8	4300	970	0.05	3900	775	0.05	3400	600	0.04
10	3300	940	0.07	3000	770	0.06	2600	590	0.05
12R12	2800	920	0.08	2450	740	0.07	2000	560	0.06
12R15	2800	825	0.07	2450	650	0.07	2100	495	0.07
16R16	2100	810	0.10	1860	650	0.08	1650	500	0.07
16R20	1700	715	0.10	1430	560	0.10	1310	455	0.08
Depth of Cut	0.1xD								
MATERIAL	STEEL-STAINLESS STEEL			STEEL			STEEL		
HARDNESS	<45HRC			<55HRC			<65HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
6	3800	425	0.03	3200	330	0.02	1700	130	0.02
8	3100	420	0.04	2700	320	0.02	1400	130	0.02
10	2250	415	0.04	2000	310	0.04	1100	130	0.03
12R12	2000	415	0.05	1650	310	0.04	800	120	0.03
12R15	2000	360	0.04	1650	280	0.05	800	100	0.04
16R16	1500	360	0.06	1100	270	0.06	600	100	0.04
16R20	1000	300	0.07	1000	250	0.06	500	90	0.04
Depth of Cut	0.1xD						0.05xD		

### HIGH SPEED MILLING CODE Y200RR

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm <sup>2</sup>						<40HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
6	17000	4200	0.06	16000	3850	0.06	13200	3100	0.06
8	13600	3700	0.07	13100	3450	0.06	11000	2800	0.06
10	10100	3100	0.07	11000	3100	0.07	8200	2450	0.07
12R12	8600	2100	0.06	8000	2000	0.06	6650	1650	0.06
12R15	9100	2100	0.06	8600	2000	0.06	8100	1800	0.06
16R16	6500	1800	0.07	6000	1750	0.07	5100	1450	0.07
16R20	5100	1500	0.07	4850	1450	0.07	4200	1200	0.07
Depth of cut	0.05xD								
MATERIAL	STEEL-STAINLESS STEEL			STEEL			STEEL		
HARDNESS	<45HRC			<55HRC			<65HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
6	12100	2400	0.05	11900	2000	0.04	7900	1000	0.03
8	9700	2100	0.05	9600	1800	0.05	6300	850	0.03
10	7400	1800	0.06	6900	1550	0.06	4900	730	0.04
12R12	6150	1200	0.05	6000	950	0.04	3900	390	0.03
12R15	6700	1600	0.06	6000	1100	0.05	4300	480	0.03
16R16	4700	1200	0.06	4500	1000	0.05	2900	420	0.03
16R20	3800	1000	0.07	3600	800	0.06	2500	370	0.04
Depth of cut	0.05xD						0.02xD		

### SIDE MILLING CODE Y300

MATERIAL	CARBON STEEL – ALLOY STEEL		STEEL – TOOL STEEL		STAINLESS STEEL	
HARDNESS	<30HRC		<45HRC			
Depth of cut	ae< 0.1xd (d<3mm) ap<1.5xd ae>0.2x d (d>3mm) ap<1.5xd		ae< 0.1xd (d<3mm) ap<1.5xd ae>0.2x d (d>3mm) ap<1.5xd		ae< 0.1xd (d<3mm) ap<1.5xd ae>0.2x d (d>3mm) ap<1.5xd	
DIAMETER	RPM	Feed mm/min	RPM	Feed mm/min	RPM	Feed mm/min
2	11000	600	7200	310	6000	210
3	8500	770	5300	380	4400	220
4	7200	850	4400	480	3700	250
6	5300	940	3200	490	2700	270
8	4000	1000	2400	560	2000	280
10	3200	1000	1900	480	1600	300
12	2700	950	1600	440	1300	300
16	2000	720	1200	350	1000	260
20	1600	600	1000	290	800	240

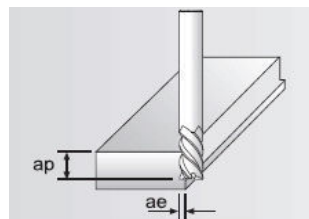
### SLOT MILLING CODE Y300

MATERIAL	CARBON STEEL – ALLOY STEEL		STEEL – TOOL STEEL		STAINLESS STEEL	
HARDNESS	<30HRC		<45HRC			
Depth of cut	ae=1xd ap<1xd		ae=1xd ap<1xd		ae=1xd ap<0.5xd	
DIAMETER	RPM	Feed mm/min	RPM	Feed mm/min	RPM	Feed mm/min
2	11000	500	7200	260	6000	130
3	8500	650	5300	320	4200	130
4	7200	650	4400	370	3400	140
6	5300	720	3200	380	2200	140
8	4000	780	2400	430	1600	140
10	3200	770	1900	370	1300	150
12	2700	730	1600	340	1100	150
16	2000	600	1200	290	800	130
20	1600	500	1000	240	640	120

### PLUNGING MILLING CODE Y300

MATERIAL	CARBON STEEL – ALLOY STEEL		STEEL – TOOL STEEL		STAINLESS STEEL	
HARDNESS	<30HRC		<45HRC			
Depth of cut	ap<1xd		ap<1xd		ap>0.5xd	
DIAMETER	RPM	Feed mm/min	RPM	Feed mm/min	RPM	Feed mm/min
2	11000	200	7200	140	6000	30
3	8500	250	5300	180	4400	50
4	7200	300	4400	210	3700	60
6	5300	300	3200	210	2700	70
8	4000	320	2400	220	2000	80
10	3200	340	1900	240	1600	70
12	2700	320	1600	220	1300	70
16	2000	250	1200	180	1000	55
20	1600	200	1000	140	800	55

Valori indicativi di fresatura  
 Standard values for milling  
 Valeurs indicatives pour le fraisage  
 Richwerte für das fräsen

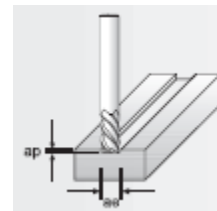


### SIDE MILLING Y400

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm <sup>2</sup>			<30HRC			<40HRC		
Dept of cut	ae= 0.2xd ap=1.5xd			ae= 0.2xd ap=1.5xd			ae= 0.2xd ap=1.5xd		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	100	0.02	10600	78	0.02	8280	65	0.02	6900
4	100	0.03	7960	78	0.03	6210	65	0.03	5175
5	100	0.03	6370	78	0.03	4968	65	0.03	4140
6	100	0.06	5300	78	0.06	4140	65	0.05	3450
8	100	0.08	3980	78	0.08	3105	65	0.06	2587
10	100	0.09	3185	78	0.09	2480	65	0.07	2070
12	100	0.10	2650	78	0.10	2070	65	0.08	1720
16	100	0.12	1990	78	0.12	1550	65	0.10	1293
20	100	0.12	1592	78	0.12	1242	65	0.11	1035

MATERIAL	STEEL								
HARDNESS	<45HRC			<55HRC			<60HRC		
Dept of cut	ae= 0.1xd ap=1.5xd			ae= 0.05xd ap=1xd			ae= 0.05xd ap=1xd		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	62	0.02	6580	60	0.02	6370	30	0.01	3184
4	62	0.03	4936	60	0.03	4780	30	0.02	2388
5	62	0.04	3950	60	0.04	3820	30	0.02	1910
6	62	0.04	3290	60	0.04	3184	30	0.03	1592
8	62	0.06	2468	60	0.06	2388	30	0.04	1194
10	62	0.07	1974	60	0.07	1910	30	0.04	955
12	62	0.08	1645	60	0.07	1592	30	0.05	796
16	62	0.09	1234	60	0.08	1194	30	0.07	597
20	62	0.10	990	60	0.09	955	30	0.08	478



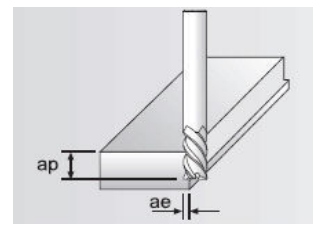
### SLOT MILLING CODE Y400

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm <sup>2</sup>			<30HRC			<40HRC		
Dept of cut	ap= 0.5xd			ap= 0.5xd			ap= 0.5xd		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	100	0.02	8500	78	0.03	6350	65	0.02	5850
4	100	0.03	6350	78	0.03	4750	65	0.02	4400
5	100	0.03	5100	78	0.04	3800	65	0.03	3500
6	100	0.04	4250	78	0.04	3200	65	0.04	2900
8	100	0.05	3200	78	0.05	2400	65	0.06	2200
10	100	0.06	2550	78	0.07	1900	65	0.07	1750
12	100	0.07	2100	78	0.07	1600	65	0.08	1450
16	100	0.09	1600	78	0.09	1200	65	0.08	1100
20	100	0.10	1250	78	0.10	955	65	0.10	875

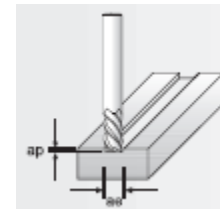
MATERIAL	STEEL								
HARDNESS	<45HRC			<55HRC			<60HRC		
Dept of cut	ap= 0.5xd			ap= 0.05xd			ap= 0.05xd		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	62	0.02	5500	60	0.02	4450	30	0.01	2100
4	62	0.03	4150	60	0.03	3350	30	0.02	1600
5	62	0.03	3300	60	0.04	2650	30	0.02	1250
6	62	0.04	2750	60	0.05	2250	30	0.03	1050
8	62	0.06	2050	60	0.06	1650	30	0.04	795
10	62	0.07	1650	60	0.07	1350	30	0.04	635
12	62	0.08	1400	60	0.08	1100	30	0.05	530
16	62	0.09	1050	60	0.09	835	30	0.06	400
20	62	0.10	830	60	0.10	670	30	0.07	320

Valori indicativi di fresatura  
 Standard values for milling  
 Valeurs indicatives pour le fraisage  
 Richwerte für das fräsen



**HIGH SPEED - SIDE MILLING CODE Y400**

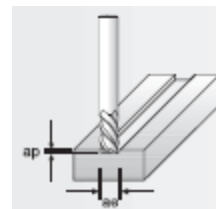
MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm2			<30HRC			<40HRC		
Dept of cut	ae= 0.2xd ap=1.5xd			ae= 0.2xd ap=1.5xd			ae= 0.2xd ap=1.5xd		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	100	0.02	21000	78	0.03	21000	65	0.01	21000
4	100	0.03	16000	78	0.03	16000	65	0.02	16000
5	100	0.04	12800	78	0.04	12800	65	0.03	12800
6	100	0.07	10700	78	0.06	10700	65	0.05	10700
8	100	0.08	8000	78	0.07	8000	65	0.06	8000
10	100	0.10	6400	78	0.08	6400	65	0.07	6400
12	100	0.11	5350	78	0.10	5350	65	0.08	5350
16	100	0.12	4000	78	0.12	4000	65	0.10	4000
20	100	0.12	3200	78	0.12	3200	65	0.12	3200
MATERIAL	STEEL								
HARDNESS	<45HRC			<55HRC			<60HRC		
Dept of cut	ae= 0.1xd ap=1.5xd			ae= 0.05xd ap=1xd			ae= 0.05xd ap=1xd		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	62	0.02	16000	60	0.015	10700	30	0.01	8500
4	62	0.03	12000	60	0.02	8000	30	0.02	6400
5	62	0.03	10000	60	0.03	6400	30	0.02	5100
6	62	0.04	8000	60	0.04	5350	30	0.03	4300
8	62	0.06	6000	60	0.05	4000	30	0.04	3200
10	62	0.07	4800	60	0.06	3250	30	0.05	2600
12	62	0.08	4000	60	0.07	2700	30	0.06	2100
16	62	0.10	3000	60	0.10	2000	30	0.08	1600
20	62	0.12	2450	60	0.11	1600	30	0.10	1300



**HIGH SPEED - SLOT MILLING CODE Y400**

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm2			<30HRC			<40HRC		
Dept of cut	ap= 0.2xd apmax=3mm			ap= 0.2xd apmax=3mm			ap= 0.2xd apmax=3mm		
DIAMETER	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM	VC m/min	FZ mm	RPM
3	100	0.02	12800	78	0.02	10700	65	0.02	9600
4	100	0.03	10000	78	0.03	8000	65	0.03	7200
5	100	0.04	7700	78	0.04	7000	65	0.03	6400
6	100	0.06	6500	78	0.05	5900	65	0.04	5400
8	100	0.07	4800	78	0.07	4400	65	0.06	4000
10	100	0.09	3800	78	0.08	3500	65	0.07	3200
12	100	0.10	3200	78	0.10	2900	65	0.07	2700
16	100	0.11	2400	78	0.11	2200	65	0.08	2000
20	100	0.11	1900	78	0.11	1750	65	0.10	1600
MATERIAL	STEEL								
HARDNESS	<45HRC								
Dept of cut	ap= 0.2xd apmax=3mm								
DIAMETER	VC m/min	FZ mm	RPM						
3	62	0.02	6400						
4	62	0.03	5200						
5	62	0.03	4200						
6	62	0.04	3700						
8	62	0.06	2800						
10	62	0.07	2300						
12	62	0.08	1900						
16	62	0.09	1400						
20	62	0.10	1100						

Valori indicativi di fresatura  
 Standard values for milling  
 Valeurs indicatives pour le fraisage  
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### LOW SPEED, HIGH FEED CODE Y400D

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm <sup>2</sup>			<30HRC			<40HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
2	15200	4990	0.08	15200	4510	0.07	11870	3610	0.07
3	9970	5940	0.14	9970	5320	0.13	8070	4270	0.13
4	7550	6270	0.20	7550	5700	0.19	6030	4560	0.19
5	6030	6650	0.28	6030	6030	0.25	4840	4840	0.25
6	5030	6650	0.33	5030	6030	0.30	4040	4840	0.30
8	3800	6650	0.43	3800	6030	0.39	3040	4840	0.40
10	3040	6650	0.54	3040	6030	0.49	2420	4840	0.50
12	2520	6650	0.66	2520	6030	0.59	2000	4840	0.60
Depth of Cut	R<2 ap=0.2XR ae=0.5xD 2<R ap=0.4mm ae=0.5xD								
MATERIAL	STEEL-STAINLESS STEEL			STEEL, HEAT RESISTANT ALLOY STEEL- TITANIUM			STEEL		
HARDNESS	<45HRC			<55HRC			<65HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
2	10450	3180	0.07	7550	2040	0.06	4510	820	0.04
3	7080	3705	0.13	5030	2470	0.12	3040	940	0.08
4	5270	3990	0.19	3800	2610	0.17	2280	1000	0.11
5	4230	4230	0.25	3040	2710	0.22	1800	1090	0.15
6	3510	4230	0.30	2530	2710	0.26	1520	1090	0.18
8	2660	4230	0.40	1900	2710	0.36	1140	1090	0.23
10	2140	4230	0.50	1520	2710	0.44	910	1090	0.30
12	1760	4230	0.60	1280	2710	0.53	750	1090	0.36
Depth of Cut	R<2 ap=0.2XR ae=0.5xD 2<R ap=0.4mm ae=0.5xD						R<2 ap=0.1XR ae=0.5xD 2<R ap=0.2mm ae=0.5xD		

The cutting speeds are referred to milling by interpolation. In case to milling without interpolation, reduce the parameters 50%/60%

### HIGH SPEED MILLING CODE Y400D

MATERIAL	CARBON STEEL – CAST IRON			ALLOY STEEL – TOOL STEEL			STEEL		
HARDNESS	750 N/mm <sup>2</sup>			<30HRC			<40HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
2	30250	9970	0.08	30400	9070	0.07	30400	9070	0.07
3	19950	11870	0.14	19950	11400	0.14	19950	11400	0.14
4	15200	12350	0.20	15200	11400	0.18	15200	11400	0.18
5	11870	13300	0.28	11870	11870	0.25	11870	11870	0.25
6	10070	13300	0.33	10070	12060	0.30	10070	12060	0.30
8	7550	13300	0.44	7550	12060	0.40	7550	12060	0.40
10	6030	13300	0.55	6030	12060	0.50	6030	12060	0.50
12	5030	13300	0.66	5030	12060	0.60	5030	12060	0.60
Depth of cut	ap=0.1xR ae=0.3xD								
MATERIAL	STEEL-STAINLESS STEEL			STEEL-HEAT RESISTANT ALLOY STEEL -TITANIUM			STEEL		
HARDNESS	<45HRC			<55HRC			<60HRC		
DIAMETER	RPM	Vf	Fz	RPM	Vf	Fz	RPM	Vf	Fz
2	22800	6800	0.07	22800	6130	0.06	15200	2710	0.04
3	15200	7980	0.13	15200	7450	0.12	9980	3130	0.07
4	11400	8550	0.18	11400	7790	0.17	7550	3370	0.11
5	9070	9070	0.25	9070	8170	0.22	6030	3610	0.15
6	7550	9070	0.30	7550	8170	0.27	5030	3610	0.18
8	5650	9070	0.40	5650	8170	0.36	3800	3610	0.23
10	4510	9070	0.50	4510	8170	0.45	3040	3610	0.30
12	3800	9070	0.60	3800	8170	0.53	2520	3610	0.36
Depth of cut	ap=0.1xR ae=0.3xD			R<2 ap=0.1XR ae=0.3xD 2<R ap=0.2mm ae=0.3xD			R<2 ap=0.1XR ae=0.3xD 2<R ap=0.2mm ae=0.3xD		

The cutting speeds are referred to milling by interpolatin. In case to milling without interpolation, reduce the parameters 50%/60%



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